SEQUENCE LISTING

<110> MĮYAGAWA, SHUJI

OKABE, MASARU

DEC 0 5 2000

RECEIVED

DEL 11 2000

TECH CENTER 1600/2900

<120> MODIFIED CRE RECOMBINASE GENE FOR MAMMALS

<130> 197330US0

<140> 09/662,128

<141> 2000-09-14

<150> JP11-264364

<151> 1999-09-17

<160> 6

<170> PatentIn version 3.0

<210> 1

<211> 1050

<212> DNA

<213> Artificial/Unknown

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<223> Description of Artificial Sequence: gene

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|--|------------|------------------|------------------|------------------|------------------|------------|------------------|------------------|------------------|------------------|------------|------------------|------------------|------------------|------------------|-----|
| atg o | ccc Pro | aag Lys | aag Lys | aag Lys 5 | agg Arg | aag Lys | gtg Val | agc Ser | aac Asn 10 | ctg Leu | Leu | acc Thr | gtg Val | cac His 15 | cag Gln | 48 |
| aac d Asn I | ctg Leu | ccc Pro | gcc Ala 20 | ctg Leu | ccc Pro | gtg Val | gac Asp | gcc Ala 25 | acc Thr | agc Ser | gac Asp | gag Glu | gtg Val 30 | cgc Arg | aag Lys | 96 |
| aac d Asn l | ctg Leu | atg Met 35 | gac Asp | atg Met | ttc Phe | cgc Arg | gac Asp 40 | cgc Arg | cag Gln | gcc Ala | ttc Phe | agc Ser 45 | gag Glu | cac His | acc Thr | 144 |
| tgg a Trp ! | | | | | | | | | | | | | | | | 192 |
| ctg a Leu a 65 | aac Asn | aac Asn | cgc Arg | aag Lys | tgg Trp 70 | ttc Phe | ccc Pro | gcc Ala | gag Glu | ccc Pro 75 | gag Glu | gac Asp | gtg Val | cgc Arg | gac Asp 80 | 240 |
| tac (| ctg Leu | ctg Leu | tac Tyr | ctg Leu 85 | cag Gln | gcc Ala | cgc Arg | ggc Gly | ctg Leu 90 | gcc Ala | gtg Val | aag Lys | acc Thr | atc Ile 95 | cag Gln | 288 |
| cag Gln | | | | | | | | | | | | | | | | 336 |
| cgc Arg | | | | | | | | | | | | | | | | 384 |

| | | | | | gcc Ala | | | | | | | | | | | 432 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----|
| gag Glu 145 | cgc Arg | acc Thr | gac Asp | ttc Phe | gac Asp 150 | cag Gln | gtg Val | cgc Arg | agc Ser | ctg Leu 155 | atg Met | gag Glu | aac Asn | agc Ser | gac Asp 160 | 480 |
| | | | | | cgc Arg | | | | | | | | | | | 528 |
| acc Thr | ctg Leu | ctg Leu | cgc Arg 180 | atc Ile | gcc Ala | gag Glu | atc Ile | gcc Ala 185 | cgc Arg | atc Ile | cgc Arg | gtg Val | aag Lys 190 | gac Asp | atc Ile | 576 |
| | | | | | ggc Gly | | | | | | | | | | | 624 |
| acc Thr | ctg Leu 210 | gtg Val | agc Ser | acc Thr | gcc Ala | ggc Gly 215 | gtg Val | gag Glu | aag Lys | gcc Ala | ctg Leu 220 | agc Ser | ctg Leu | ggc | gtg Val | 672 |
| | | | | | cgc Arg 230 | | | | | | | | | | | 720 |
| ccc Pro | aac Asn | aac Asn | tac Tyr | ctg Leu 245 | ttc Phe | tgc Cys | cgc Arg | gtg Val | cgc Arg 250 | aag Lys | aac Asn | ggc Gly | gtg Val | gcc Ala 255 | gcc Ala | 768 |
| | | | | | cag Gln | | | | Arg | | | | | | | 816 |
| gag Glu | gcc Ala | acc Thr 275 | cac His | cgc Arg | ctg Leu | atc Ile | tac Tyr 280 | ggc | gcc Ala | aag Lys | gac Asp | gac Asp 285 | agc Ser | ggc Gly | cag Gln | 864 |
| | | | | | agc Ser | | | | | | | | | | | 912 |
| | | | | | ggc Gly 310 | | | | | | | | | | | 960 |

ggc tgg acc aac gtg aac atc gtg atg aac tac atc cgc aac ctg gac Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr Ile Arg Asn Leu Asp

1008

agc gag acc ggc gcc atg gtg cgc ctg ctg gag gac ggc gac Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu Asp Gly Asp 340 345 350

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Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser Asp Glu Val Arg Lys 20 25 30

Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala Phe Ser Glu His Thr 35 40 45

Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp Ala Ala Trp Cys Lys 50 55 60

Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro Glu Asp Val Arg Asp 65 70 75 80

Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala Val Lys Thr Ile Gln 85 90 95

Gln His Leu Gly Gln Leu Asn Met Leu His Arg Arg Ser Gly Leu Pro 100 105 110

Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val Met Arg Arg Ile Arg 115 120 125

Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys Gln Ala Leu Ala Phe 130 135 140

Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu Met Glu Asn Ser Asp 145 150 155 160

Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu Gly Ile Ala Tyr Asn 165 170 175

Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile Arg Val Lys Asp Ile 180 185 190

Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His Ile Gly Arg Thr Lys 195 200 205

Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala Leu Ser Leu Gly Val 210 215 220

Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser Gly Val Ala Asp Asp 225 230 235 240

Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys Asn Gly Val Ala Ala 245 250 255.

Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala Leu Glu Gly Ile Phe 260 265 270 Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys Asp Asp Ser Gly Gln 275 280 285

Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg Val Gly Ala Ala Arg 290 295 300

Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu Ile Met Gln Ala Gly 305 310 315 320

Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr Ile Arg Asn Leu Asp 325 330 335

Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu Asp Gly Asp 340 345 350

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<212> DNA

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<223> Description of Artificial Sequence: synthetic DNA

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<210> 4

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<212> DNA
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ttcgtatagc atagattata cgaagttat
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<211> 29
<212> DNA
<213> Artificial/Unknown
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<223> Description of Artificial Sequence: synthetic DNA

<400> 5 ataacttcgt atagcataca ttatacgaa

<210> 6

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<211> 21

<212> АИС

<213> Art\ficial/Unknown

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21